

METRIC

MIL-DTL-38999/24F

11 June 2001

SUPERSEDING

MIL-C-38999/24E

7 June 1995

DETAIL SPECIFICATION SHEET

CONNECTORS, ELECTRICAL, CIRCULAR, RECEPTACLE, THREADED, JAM-NUT MOUNTING, REMOVABLE CRIMP CONTACTS, SERIES III, METRIC

This specification is approved for use by all Departments
and Agencies of the Department of Defense.

The requirements for acquiring the product described herein
shall consist of this specification and MIL-DTL-38999.

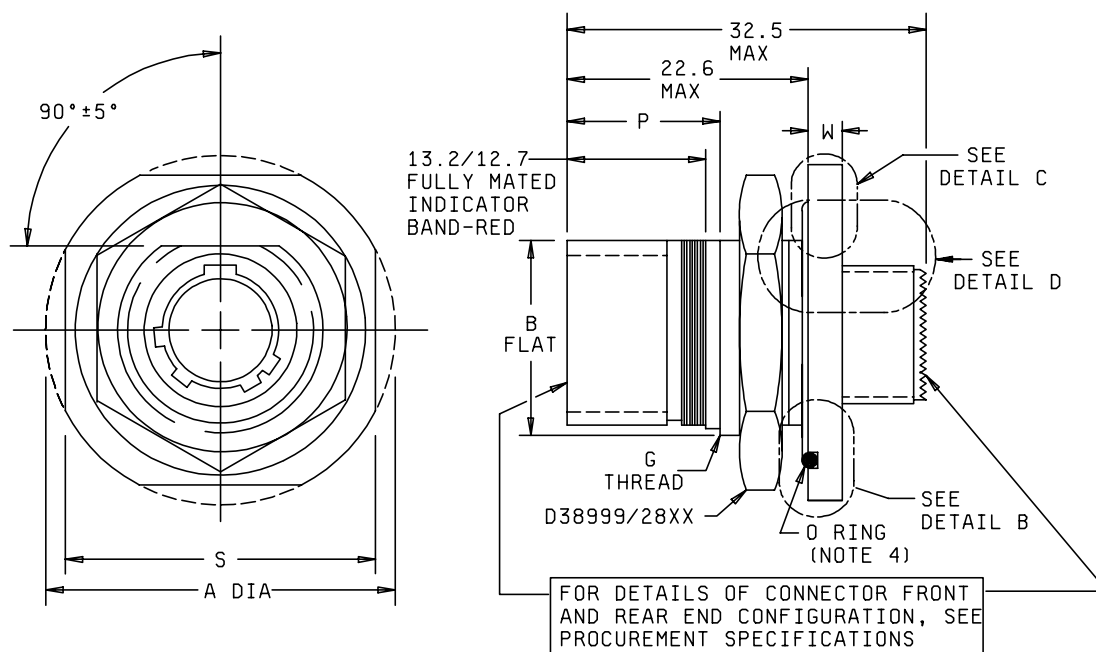
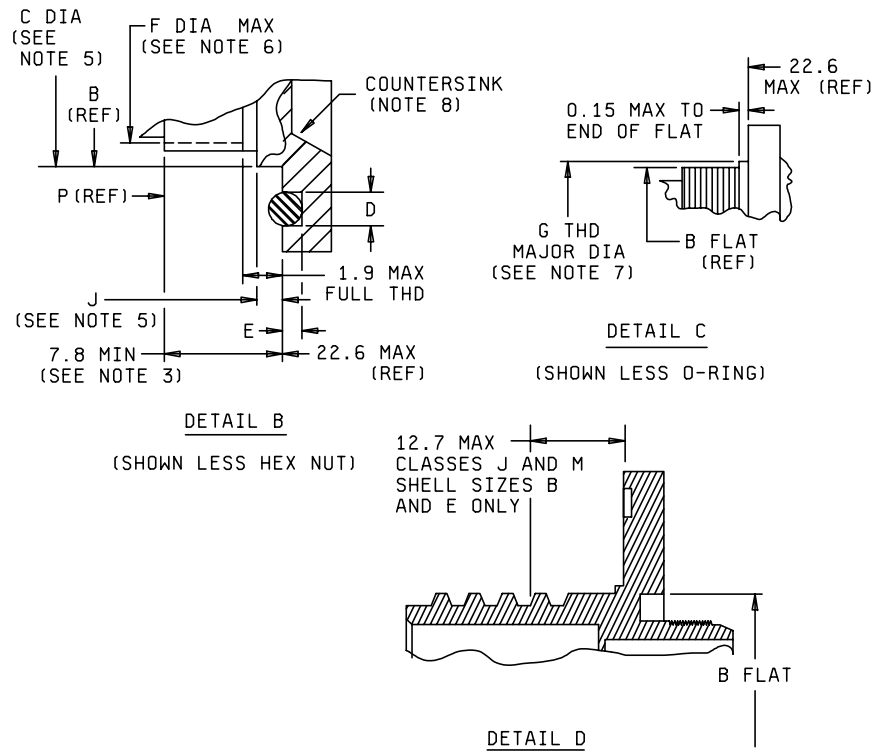


FIGURE 1. Receptacle, classes F, G, J, K, M, R, S, W and X.



Dimensions							
Shell size	Shell size code	A dia $\pm .3$	B flat $+ .10$ $- .15$	C dia $+ .1$ $- .2$	D $+ .13$ $- .03$	E $\pm .13$	F dia Max
9	A	30.2	16.53	17.4	2.39	1.14	15.9
11	B	34.9	19.07	20.6	2.39	1.14	18.8
13	C	38.1	23.82	25.4	2.39	1.14	23.8
15	D	41.3	26.97	28.5	2.39	1.14	26.8
17	E	44.5	30.15	---	2.39	1.14	30.8
19	F	49.2	33.32	---	3.58	1.91	33.8
21	G	52.4	36.50	---	3.58	1.91	36.8
23	H	55.6	39.67	41.2	3.58	1.91	39.8
25	J	58.7	42.85	44.4	3.58	1.91	42.8

FIGURE 1. Receptacle, classes F, G, J, K, M, R, S, W and X - Continued.

Dimensions								
Shell Size	Shell size code	G Thread	J + .0 - .71	P + .6 - .0	S ± .4	W + .9 - .1	Recommended O-ring AS3582- (see note 4)	External bending moment Classes J & M Newton – Meters
9	A	M17x1-6g 0.100R	1.5	14.1	27.0	2.2	019	8.5
11	B	M20x1-6g 0.100R	1.5	14.1	31.8	2.2	022	14.1
13	C	M25x1-6g 0.100R	1.5	14.1	34.9	2.2	024	19.8
15	D	M28x1-6g 0.100R	1.5	14.1	38.1	2.2	026	28.2
17	E	M32x1-6g 0.100R (see note 2)	---	14.1	41.3	2.2	028	36.7
19	F	M35x1-6g 0.100R	---	14.1	46.0	3.0	128	45.2
21	G	M38x1-6g 0.100R	---	14.1	49.2	3.0	130	53.7
23	H	M41x1-6g 0.100R	1.5	14.1	52.4	3.0	132	62.1
25	J	M44x1-6g 0.100R	1.5	14.1	55.6	3.0	134	73.4

NOTES:

1. Except where noted dimensions are in millimeters.
2. Modified major diameter: 31.95 - 31.80.
3. Panel thickness: 3.2 - 1.58
4. Alternate O-ring material may be AMS 3325.
5. C and J dimensions define feature required for proper fit in type E panel.
6. F diameter defines thread start.
7. This dimension applies to sizes 17, 19, and 21 only (C and G diameters are the same).
8. Countersink may be incorporated to accept accessory configuration accordance with MIL-DTL-38999.

FIGURE 1. Receptacle, classes F, G, J, K, M, R, S, W and X - Continued.

REQUIREMENTS:

Dimensions and configuration: See figure 1. Interface dimensions shall conform to MIL-DTL-38999.

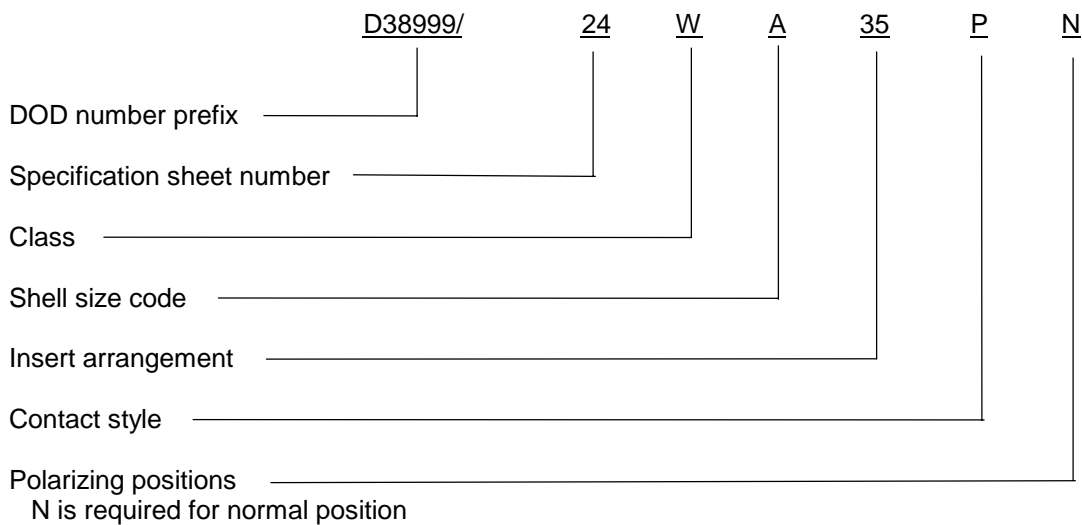
This connector mates with MIL-DTL-38999/26.

O-ring and nut shall be provided with jam-nut receptacle.

For insert arrangements: See MIL-STD-1560.

Connector accessories: See MIL-C-85049.

Part or Identifying Number (PIN) example:



Class F is not for Navy use and is inactive for Air Force new design use.

NOTE: The term PIN is equivalent to the term (part number, identification number, and type designator) which was previously used in this specification.

CONCLUDING MATERIAL

Custodians:
 Army – CR
 Navy - AS
 Air Force – 11
 DLA – CC
 NASA - NA

Preparing activity:
 DLA - CC

(Project 5935-4301-05)

Review activities:
 Army - AR, MI
 Navy - EC, MC, OS
 Air Force - 19, 99